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FLATV™

15PFL4122

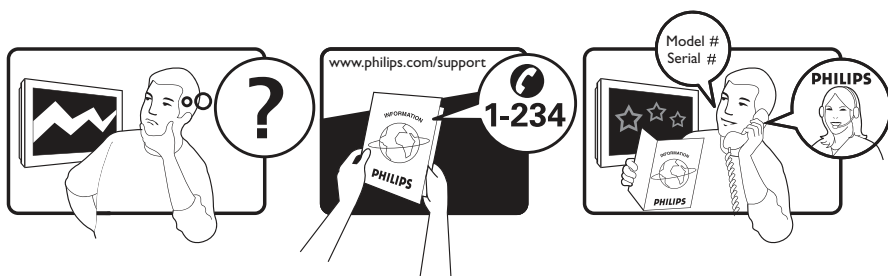
19PFL4322

20PFL4122



EN USER MANUAL

PHILIPS



Country	Number	Tariff
Austria	0810 000205	€0.07/min
Belgium	078250145	€0.06/min
Czech Rep	800142840	free
Denmark	3525 8759	local
Finland	09 2311 3415	local
France	0821 611655	€0.09/min
Germany	01803 386 852	€0.09/min
Greece	0 0800 3122 1280	free
Hungary	0680018189	free
Ireland	01 601 1777	local
Italy	840320086	€0.08/min
Luxemburg	40 6661 5644	local
Netherlands	0900 8407	€0.10/min
Norway	2270 8111	local
Poland	0223491504	local
Portugal	2 1359 1442	local
Slovakia	0800004537	free
Spain	902 888 784	€0.10/min
Sweden	08 5792 9100	local
Switzerland	0844 800 544	local
UK	0870 900 9070	local

This information is correct at the time of press.
For updated information, see www.support.philips.com

Positioning the TV



Disposal of your old product

Your product is designed and manufactured with highly quality material and components, which can be recycled and reused. When this crossed-out wheeled bin symbol is attached to a product, it means the product is covered by the European Directive 2002/96/EC.

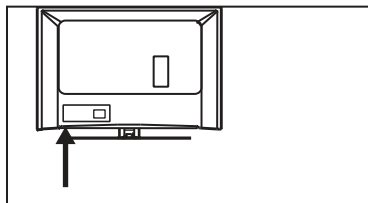
Please inform yourself about the local separate collection system for electrical and electronic products. Please act according to your local rules and do not dispose of your old products with your normal household waste. The correct disposal of your old product will help prevent potential negative consequences for the environment and human health.

Disposal of batteries

The batteries supplied do not contain the heavy metals mercury and cadmium. Please check on how to dispose of exhausted batteries according to local regulations.

Product information

The model and serial number can be found at the rear of the TV and on the packaging.



- Standby power consumption is less than 1W.
- The power consumption of the set is given on the type plate at the rear of the TV.
- For more product specifications, see the product leaflet on www.philips.com/support.

Note: specifications and information are subject to change without notice.

For further assistance call the customer support service in your country. The corresponding telephone numbers and addresses are given in the supplied worldwide guarantee booklet.

Pixel characteristics

Your TV display is made with high-precision technology with a high number of color pixels. Although it has effective pixels of 99,999% or more, black dots or bright points of light (red, green or blue) may appear constantly on the screen. This is a structural property of the display (within common industry standards) and is not a malfunction.

Reference Table of Countries

The following table lists the countries and their abbreviations.

Abbreviation	Country
A	Austria
B	Belgium
CH	Switzerland
D	Germany
DK	Denmark
E	Spain
F	France
FL	Finland
GB	England
GR	Greece
I	Italy
IRL	Ireland
L	Luxembourg
N	Norway

Abbreviation	Country
NL	Netherlands
P	Portugal
S	Sweden
CZ	Czech Republic
H	Hungary
HR	Croatia
PL	Poland
RO	Romania
RUS	Russia
SK	Slovakia
SLO	Slovenia
TR	Turkey
---	Others

Information for Users in the UK

This information is specific to the UK. If you are using your TV in the UK, use this information in conjunction with the rest of this manual.

Positioning the TV

For the best results, choose a position where light does not fall directly on the screen, and at some distance away from radiators or other sources of heat. Leave a space of at least 5cm around the TV for ventilation. Ensure that curtains, cupboards and other items cannot obstruct the air flow through the ventilation apertures. The TV is intended for use in a domestic environment only and should never be operated or stored in excessively hot or humid atmospheres.

Interference

The Department of Trade and Industry operates a Radio Interference Investigation Service to help TV licence holders improve reception of BBC and IBA programmes where they are being spoilt by interference. If your dealer cannot help, ask at a main Post Office for the booklet *"How to Improve Television and Radio Reception"*.

Mains Connection

Before connecting the TV to the mains, check that the mains supply voltage corresponds to the voltage printed on the type plate on the rear panel of the TV. If the mains voltage is different, consult your dealer.

Important

This apparatus is fitted with an approved moulded 13 AMP plug. Should it become necessary to replace the mains fuse, this must be replaced with a fuse of the same value as indicated on the plug.

1. Remove fuse cover and fuse.

2. Replace the fuse.

The replacement fuse must comply with BS 1362 and have the ASTA approval mark. If the fuse is lost, contact your retailer in order to verify the correct type.

3. Refit the fuse cover.

If for any reason the fitted plug is not suitable for your socket outlet, consult your retailer or a qualified electrician before proceeding with the installation.

Connecting the Aerial

The aerial should be connected to the socket marked : at the back of the set. An inferior aerial is likely to result in a poor, perhaps unstable picture with ghost images and lack of contrast. Make-shift loft or set-top aerials are often inadequate. Your dealer will know from experience the most suitable type for your locality. Should you wish to use the set in conjunction with other equipment, which connects to the aerial socket such as TV games, or a video camera it is recommended that these be connected via a combiner unit to avoid repeated connection and disconnection of the aerial plug.

Fitting the Stand (If Provided)

Use only the stand provided with the set. Ensure that the fixings are properly tightened. A diagram showing how to assemble the stand is packed with the stand. Never use a make-shift stand, or legs fixed with screws.

Introduction

Thank you for purchasing this television set.
This handbook has been designed to help you install and operate your TV set.
We would strongly recommend that you read it thoroughly.
We hope our technology meets entirely with your satisfaction.

EN

FR

NL

DE

IT

DK

NO

SE

FI

RU

ES

PT

GR

TR

HU

PL

CZ

SK

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Recycling
The materials used in your set are either reusable or can be recycled.
To minimise environmental waste, specialist companies collect used appliances and dismantle them after retrieving any materials that can be used again (ask your dealer for further details).

IMPORTANT SAFETY INSTRUCTIONS

Read before operating equipment

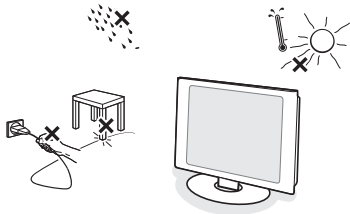
Important

- For ventilation, leave at least 4" to 6" free all around the TV. Do not place the TV on a carpet.
- The equipment shall not be exposed to dripping or splashing.
- The equipment shall not be exposed to rain or moisture and objects filled with liquids, such as vases, shall be placed on the apparatus.
- The apparatus must be connected to a mains socket outlet with a protected earthed connection. (not available for 15")
- The appliance coupler is used as the disconnect device of this apparatus, the disconnect device shall remain readily operable. (not available for 15")

General

Do not insert the power plug in a wall socket or hang the TV to the wall before all connections are made.

- Place or hang the TV wherever you want, but make sure that air can circulate freely through the ventilation slots.



- Do not install the TV in a confined space such as a book case or a similar unit.
- To prevent any unsafe situations, no naked flame sources, such as lighted candles, should be placed in the vicinity.
- Avoid heat, direct sunlight and exposure to rain or water.
- The equipment shall not be exposed to dripping or splashing.

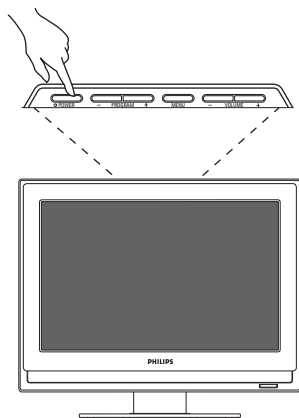
Care of the screen

- Do not touch, push or rub or strike the screen with anything hard as this may scratch, mar or damage the screen permanently.
- And please do not rub with dust clothes with chemical treatment.
- Do not touch the surface with bare hands or greasy cloth (some cosmetics are detrimental to the screen).
- Unplug the TV before cleaning the screen.
- When the surface becomes dusty, please wipe gently with absorbent cotton or other soft materials like chamois soaks.
- Do not use acetone, toluene and alcohol because they cause chemical damage.
- Do not use liquid cleaners or aerosol cleaners. Wipe off saliva or water drops as soon as possible. The long time contact with the screen causes deformations and colour fading.

Electric, Magnetic and Electromagnetic Fields ("EMF")

- Philips Royal Electronics manufactures and sells many products targeted at consumers, which, like any electronic apparatus, in general have the ability to emit and receive electromagnetic signals.
- One of Philips' leading Business Principles is to take all necessary health and safety measures for our products, to comply with all applicable legal requirements and to stay well within the EMF standards applicable at the time of producing the products.
- Philips is committed to develop, produce and market products that cause no adverse health effects.
- Philips confirms that if its products are handled properly for their intended use, they are safe to use according to scientific evidence available today.
- Philips plays an active role in the development of international EMF and safety standards, enabling Philips to anticipate further developments in standardisation for early integration in its products.

Presentation of the LCD Television

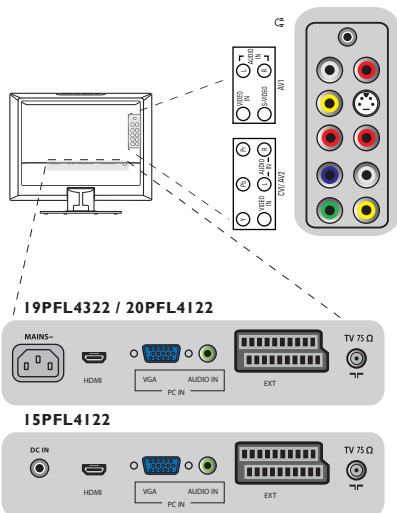


Television keys:

- **POWER**: to switch the TV on or off.
- **VOLUME -/+**: to adjust sound level.
- **MENU**: to access or close menus.

The **PROGRAM +/-** keys can be used to select an adjustment and the **VOLUME +/-** keys to make that adjustment.

- **PROGRAM +/-(- P +)**: to select programmes.



Remote Control Keys

1) **POWER**

Press to turn on/off the TV or to standby mode.

Note: The TV is never powered off completely unless it is physically unplugged.

2)

These four color buttons allow you to access the item or the page indicated by corresponding color in teletext.

3) **Sleep button**

Press to set the LCD TV to turn itself off within a certain time.

4) **Smart Sound button**

Press repeatedly to select among the settings; Personal, Speech, Music, Movies, Multimedia.

Cursor ()

5) These 4 keys are used to move around the menus.

Menu

6) To call up or exit the TV menus.

A/CH

7) To access the previous viewed programme.

VOL +/-

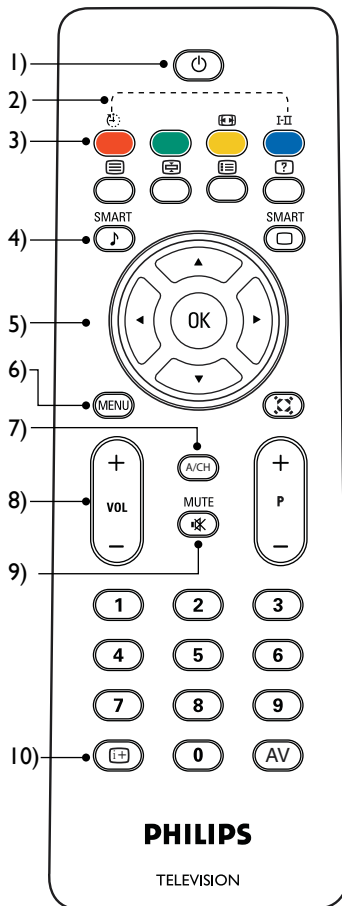
8) To adjust the sound level.

Mute

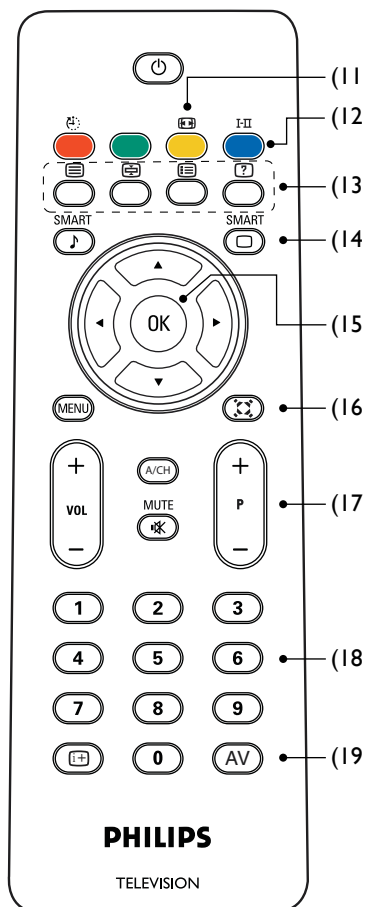
9) To mute or restore the sound.

Information button

10) Press to see the current channel number on the TV screen.

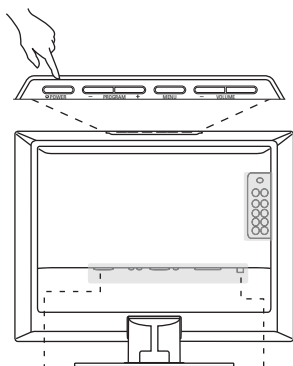
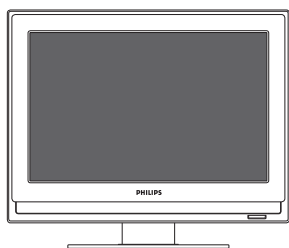


Remote Control Keys



- 11) **Screen Format** (p.11)
- 12) **I-II button / Sound mode**
Press repeatedly to select MONO, DUAL I, DUAL II, STEREO, NICAM MONO, NICAM DUAL I, NICAM DUAL II, NICAM STEREO.
- 13) **Teletext button**
 - Teletext On/Off**
 - Teletext hold**
Freezes the teletext page.
 - Teletext mix**
Teletext background become transparent, content mixes with images.
 - Teletext reveal/conceal**
Press to toggle between conceal and reveal mode.
 - Main index**
Press to return to the main index.
 - Teletext enlarge**
Press to enlarge context to two times larger.
- 14) **Smart Picture button**
Press repeatedly to select either Personal, Rich, Nature, Soft, or Multimedia of picture setting.
- 15) **OK button**
Press OK button to access Program list or confirm your selection.
- 16) **Incredible Surround button**
Adds greater depth and dimension to TV sound. Select from On or Off.
- 17) **P +/-**
Press to adjust the channel up or down.
Press to roll the teletext page up or down.
- 18) **Number button**
Press the number buttons for direct access to the TV channels. For 2 digit channel, enter the 2nd digit after enter 1st digit.
- 19) **AV button**
Press to select the video input source: TV, CVI, AV 1, AV 2, PC, EXT and HDMI.

Installing your television set



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DC IN

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TV 75 Ω

TV 75 Ω

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1 Positioning the television set

Place your TV on a solid stable surface. To avoid danger do not expose the TV to water, or a heat source (e.g. lamp, candle, radiator). Do not obstruct the ventilation grid at the rear.

2 Connecting the aerials

- Insert the aerial plug into the socket at the rear of the set.
- Connect the power lead to the television and the mains plug into the wall socket (220-240 V/50 Hz). For connecting other appliances see page p.13.

3 Switching on

To switch on the set, press the POWER key. A blue indicator comes on and the screen lights up. Go straight to the Quick Installation chapter. If the TV remains in standby mode (red indicator), press the P +/-key on the remote control. The indicator will flash when you use the remote control.

Note-Quick installation

ATS (Automatic Tuning System) feature

If the transmitter or cable network sends the automatic sort signal, the programmes are numbered correctly. In this case, the installation is complete. If this is not the case, you can use the **Channel setting** menu to number the programmes correctly.

ACI (Automatic Channel Installation) feature

If a cable system or a TV channel which broadcasts ACI is detected, a programme list appears. Without ACI broadcast, the channels are numbered according to your language and country selection. You can use the Channel setting menu to re-number them.

Quick installation

When you turn on the TV set for the first time, a menu is displayed on screen. This menu prompts you to select the country and language for the menus:



If the menu is not displayed, press the **MENU** key to display the menu.

- ① Use the Δ ∇ keys on the remote control to select your country and validate with \triangleright .
- ② Next select your language using the Δ ∇ keys and validate with \triangleright .

③ The search starts automatically. All the available TV programmes and radio stations will be stored. This operation takes a few minutes. The display shows the progress of the search and the number of programmes found. At the end of the search, the menu disappears.

To exit or interrupt the search, press **MENU**. If no programme is found, consult the possible solutions p.15.

- ④ If the transmitter or cable network sends the automatic sort signal, the programs will be numbered correctly. In this case, the installation is complete.
- ⑤ If this is not the case, you need to use the **Channel setting** menu to number the programs correctly. (p.8)

Manual Store

This menu is used to store the programmes one at a time.

- ① Press the **MENU** key.
- ② With the cursor, select the Install menu then **Manual store**:



- ③ **System**: select Europe (automatic detection*) or Western Europe (BG standard), Eastern Europe (DK standard), United Kingdom (I standard) or France (LL' standard).

- ④ **Manual store**: press \triangleright . The search starts. Once a programme is found, the scanning stops and its name is displayed (when available). Go to the next step. If you know the frequency of the required programme, this can be entered directly using the 0 to 9 keys.

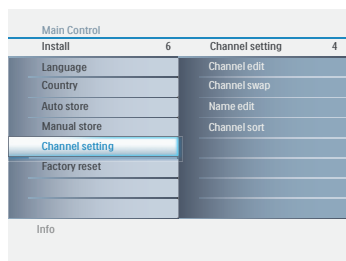
If no picture is found, consult the possible solutions (p.15).

- ⑤ **Prog. No.:** enter the required number with the Δ ∇ or 0 to 9 keys.
- ⑥ **Finetune**: if the reception is not satisfactory, adjust using the Δ ∇ keys.
- ⑦ **Store**: press \triangleright . The program is stored.
- ⑧ Repeat steps ④ to ⑦ for each programme to store.
- ⑨ To quit the menus, press **MENU**.

Channel setting

This allow you to set the selected channel skipped or active.

- 1 Press the **MENU** key.
- 2 With the cursor, select the **Install** menu then **Channel setting**:

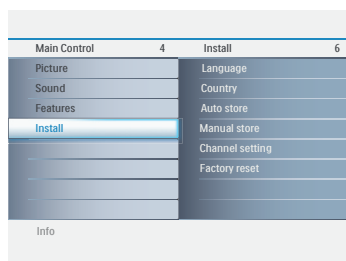


- 3 Indicate your choice by **^** **v** keys and validate with **>** key.

- **Channel edit:** it allows you to select channel for edit.
- **Channel swap:** This switches the selected channel to the destination channel.
- **Name edit:** If required, you can give a name to the programmes and external connectors. Use the **<** **>** keys to move around the name display area (6 characters) and the **^** **v** keys to select the characters. When the name has been entered, use the **>** key to exit. The name is stored.
- **Channel sort:** This arranges all the available channels by numerical and alphabetical character.

Other settings in the Install menu

- 1 Press the **MENU** key.



- **Auto Store:** to start automatic search for all programmes available in your region. If the transmitter or cable network sends the automatic sort signal, the programmes will be numbered correctly. If this is not the case, you need to use the **Channel setting** menu to renumber the programmes.

*Some transmitters or cable networks broadcast their own sort parameters (region, language, etc.). In this case, indicate your choice using the **^** **v** keys and validate with **>**. To quit or interrupt the search, press **MENU**. If no picture is found, consult the possible solutions (p. 15).*

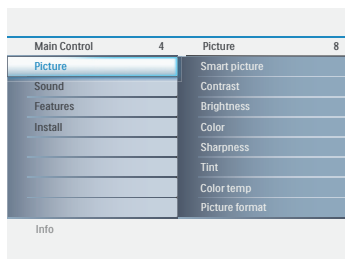
- 2 Indicate your choice by **^** **v** keys and validate with **>** key.
- 3 To quit the menus, press **MENU**.

- **Language:** to change the display language for the menus.
- **Country:** to select your country (GB for Great Britain).

This setting is used for the search, automatic programme sort and teletext display. If your country does not appear in the list, select "..."

Picture settings

- 1 Press the **MENU** then **>**. The **Picture** menu is displayed.



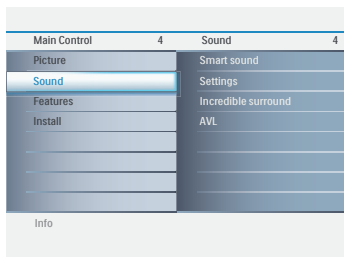
- 2 Use the **^** **v** keys to select or adjust a setting and validate with **>**.
- 3 To quit the menus, press **MENU**.

Description of the settings:

- **Smart picture:** there are five modes of Smart picture including **Personal**, **Rich**, **Nature**, **Soft**, or **Multimedia**.
- **Brightness:** this changes picture brilliance.
- **Contrast:** this changes the difference between the light and dark tones.
- **Color:** this changes the intensity of the color.
- **Sharpness:** this changes the picture definition.
- **Tint:** this changes the picture color to mix or hue.
- **Color temp:** this changes the color rendering: **Cool** (bluer), **Normal** (balanced), or **Warm** (redder).
- **Picture format:** Adjust to change the screen format to match the type of program you are watching. Please refer to p.11 for detail.

Sound settings

- 1 Press **MENU**, select **Sound** (**v**) and press **>**. The **Sound** menu is displayed:
- 2 Use the **^** **v** keys to select or adjust a setting and validate with **>**.
- 3 To quit the menus, press **MENU**.

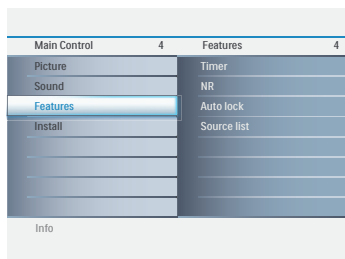


Description of the settings:

- **Smart sound:** you can press the Smart sound button on the remote control repeatedly to select **Personal**, **Speech**, **Music**, **Movie** and **Multimedia**. **Personal** mode can be set by your preference.
- **Setting:** this allows you to adjust Treble, Bass, and Balance of the sound.
- **Incredible surround:** adds greater depth and dimension to TV sound. Select from **On** or **Off**.
- **AVL:** this is used to limit increase in sound, especially on program change or advertising slots.

Features settings

- 1 Press **MENU**, select **Features** (V) and press **>**. You can adjust:



• Timer

- Clock: to set the time.
- Start time: to set the time for turning on the TV automatically.
- Stop time: to set the time for turning off the TV automatically.
- Sleep timer: to select an automatic standby period. This list will have values from 0 to 180.

• NR

Attenuates picture noise (snow) in difficult reception conditions.

• Auto lock

You can lock channels to prevent your children from watching unsuitable content of programmes. Auto lock offers various Blocking controls:

- Lock program: to lock the TV channels by your choice.
- Change code: to change your access code.
- Clear all: to unlock all locked channels and programming.

Remember that 0000 is the default pin code.

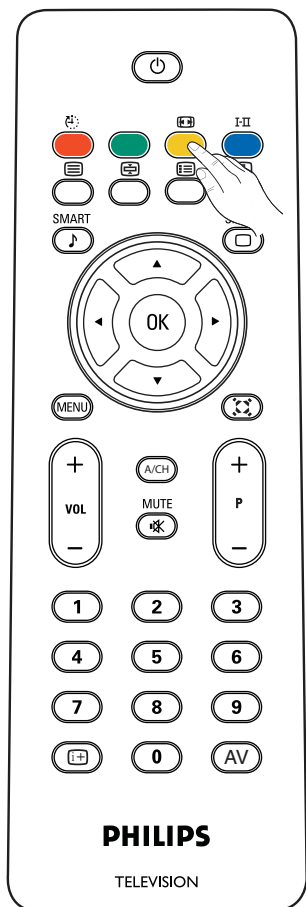
If your access code has been changed by someone other than you (a child, for example) or you have forgotten the code, you can always get in by inputting 0711 master pin code.

• Source list

It includes below video input source: TV, CVI, AV 1, AV 2, PC, EXT and HDMI.

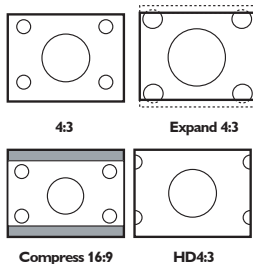
- 2 Use the **^** **v** keys to select or adjust a setting and validate with **>**.
- 3 To quit the menus, press **MENU**.

Screen format

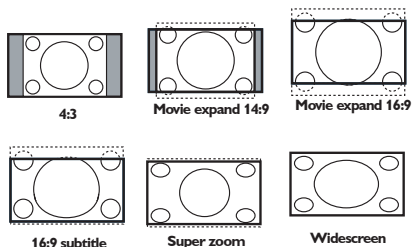


Press this button to display a list of available display formats. Available display formats are determined by the type of signal you are receiving. To choose the display format you prefer, press the **FORMAT** button repeatedly:

For 15PFL4122/ 20PFL4122



For 19PFL4322,
Super Zoom, 4:3, Movie expand 14:9, Movie expand 16:9, 16:9 subtitle and widescreen.



Super Zoom, Movie expand 14:9, Movie expand 16:9 and 16:9 subtitle makes the picture fill the screen as much as possible. It is recommended to press the cursor up/down key to adjust the picture position on the screen.

Super zoom removes the black bars on the sides of 4:3 programs with minimal distortion. When in the Expand 4:3, Compress 16:9, HD 4:3, Movie expand 14:9, Movie expand 16:9 or Super zoom picture format, you can make subtitles visible with the cursor up/down.

Note: Not all screen formats are available when displaying HD sources.

Using in PC monitor mode

PC mode

- 1 Press the **AV** key on the remote control to display the Source list.
- 2 Use the **▲ ▼** keys to select **PC** mode and validate with **>**.

-First of all, you must connect your computer to VGA jack on the back of TV and adjust to best resolution.

-For laptop user, please press “Fn” + “CRT/LCD” buttons to switch the screen to TV.

Using the PC menus

Press the **MENU** key to access the specific settings of the PC monitor mode. Use the cursor to adjust them (the settings are automatically saved):

Picture:

- **Color temp:** this changes the color rendering: **Cool** (bluer), **Normal** (balanced), or **Warm** (redder).
- **Brightness:** to adjust the brightness.
- **Contrast:** to adjust the contrast.
- **Auto adjust:** to adjust the best image position and phase/clock settings automatically.
- **Manual adjust:** to manually fine tune the image as it appears on the screen.

- Phase: eliminates the horizontal interfering lines.
- Clock: eliminates the vertical interfering lines.
- Horizontal: adjust the horizontal placement of the picture.
- Vertical: adjust the vertical placement of the picture.

Sound:

- **Smart sound:** you can press the Smart sound button on the remote control repeatedly to select **Personal, Speech, Music, Movie** and **Multimedia**. **Personal** mode can be set by your preference.
- **Setting:** this allows you to adjust Treble, Bass, and Balance of the sound.
- **Incredible surround:** adds greater depth and dimension to TV sound. Select from **On** or **Off**.
- **AVL:** this is used to limit increase in sound, especially on program change or advertising slots.

Features: (not available for 15" / 20")

- **Picture format:** to choose between full screen or 4:3 of the PC screen.

Install:

- **Language:** to choose your preferred language.
- **Factory reset:** to reset the TV to the factory settings.

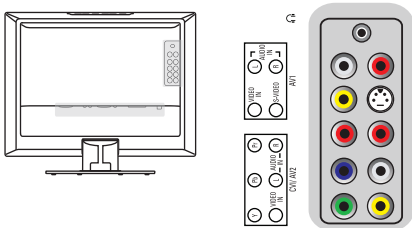
Here is the list of the different PC display resolutions available on your TV:

	15" / XGA	19" / WXGA	20" / VGA
640 x 480	V	V	V
720 x 400			V
800 x 600	V	V	
1024 x 768	V	V	
1280 x 720		V	
1280 x 768		V	
1360 x 768		V	
1440 x 900		V	

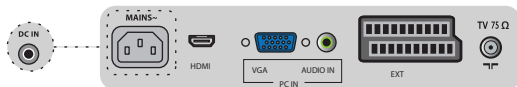
Connecting peripheral equipment

Source List	7
TV	
CVI	
AV1	
AV2	
PC	
EXT	
HDMI	

Press the AV key on the remote control to display Source List and select TV or peripheral equipment connected to TV, CVI, AV 1, AV 2, PC, EXT and HDMI.

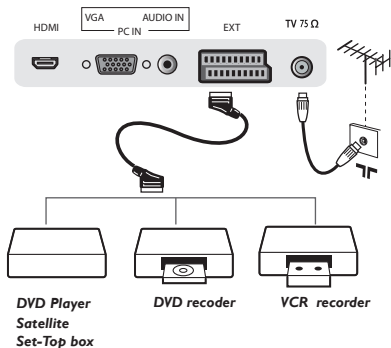


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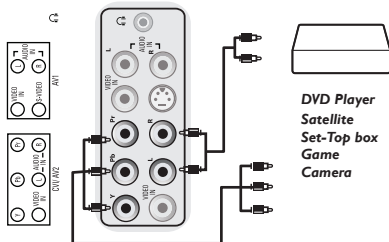
Bottom Connections

Connect to EXT
Select source EXT

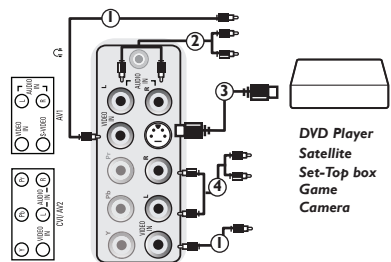


Side Connections

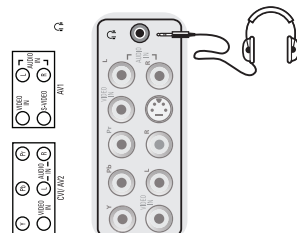
Connect to CVI / Component (YPbPr)
Select source CVI



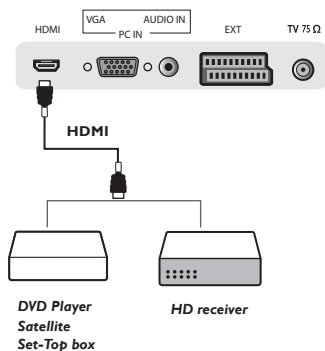
Connect to AV 1, AV 2: Composite (1)+(2), (1)+(4)
Connect to AV 1: S-Video (3)+(2)
Select source AV 1 or AV 2



Connect to earphone

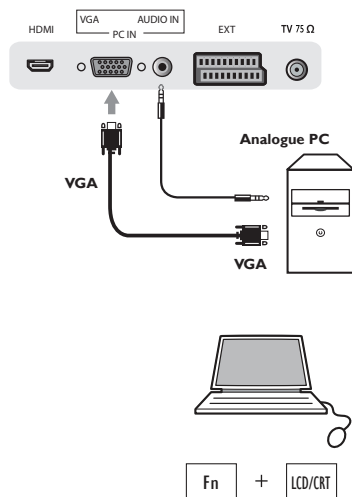


Connect to HDMI
Select source HDMI



HDMI input compliance with 480i/p, 576i/p, 720p, 1080i/p signal handling capability.

Connect to PC
Select source PC



For laptop user, please press “ **Fn** ” + “ **CRT/ LCD** ” buttons to switch the screen to TV.

Tips

Poor reception	The proximity of mountains or high buildings may be responsible for ghost pictures, echoing or shadows. In this case, try manually adjusting your picture: see Finetune (p.7) or modify the orientation of the outside aerial. If you are using an indoor aerial, reception may be difficult in certain conditions. You can improve reception by rotating the aerial. If the reception remains poor, you will need to use an external aerial.
No picture	Have you connected the aerial socket properly ? Have you chosen the right system? (p.7). Poorly connected euroconnector cables or aerial sockets are often the cause of picture or sound problems (sometimes the connectors can become half disconnected if the TV set is moved or turned). Check all connections.
No sound	If on certain channels you receive a picture but no sound, this means that you do not have the correct TV system. Modify the System setting (p.7). The amplifier connected to the TV does not deliver any sound? Check that you have not confused the audio output with the audio input.
How to switch TV / PC mode ?	Press AV key on remote control and select PC mode in Source List. (p.12) First of all, you must connect your computer to VGA jack on the back of TV and adjust to best resolution. For laptop user, please press "Fn" + "CRT/LCD" buttons to switch the screen to TV.
PC mode don't work ?	Check that you have configured the computer on a compatible display resolution (see p.12).
Remote control	The TV set does not react to the remote control; the indicator on the set no longer flashes when you use the remote control? Replace the battery.
Standby	If the set receives no signal for 30 mins, it automatically goes into standby mode. To save power, your set is fitted with components that give it a very low power consumption when in standby mode (less than 1 W).
Cleaning the set	Only use a clean, soft and lint-free cloth to clean the screen and the casing of your set. Do not use alcohol-based or solvent-based products.
Still no results?	Disconnect the mains plug of the TV for 30 seconds then reconnect it. If your TV set breaks down, never attempt to repair it yourself: contact your dealer's after-sales service.

Glossary

VGA (Video Graphics Array): a common standard graphics display system for PCs.

RGB signals : These are the three video signals, Red Green Blue, which make up the picture. Using these signals improves picture quality.

S-VHS Signals: These are 2 separate Y/C video signals from the S-VHS and Hi-8 recording standards. The luminance signals Y (black and white) and chrominance signals C (colour) are recorded separately on the tape. This provides better picture quality than with standard video (VHS and 8 mm) where the Y/C signals are combined to provide only one video signal.

NICAM sound: Process by which digital sound can be transmitted.

System: Television pictures are not broadcast in the same way in all countries. There are different standards: BG, DK, I, and L L'. The System setting (p.7) is used to select these different standards. This is not to be confused with PAL or SECAM colour coding. Pal is used in most countries in Europe, Secam in France, Russia and most African countries. The United States and Japan use a different system called NTSC. The input EXT is used to read NTSC coded recordings.

I 6:9: Refers to the ration between the length and height of the screen. Wide screen televisions have a ration of 16/9, conventional screen TV sets have a ration of 4/3.